



May 08, 2015

Brady Gerber Integrated Solutions 215 S. Laura Wichita, KS 67211

RE: Project: CLEAN HARBORS - WICHITA KS

Pace Project No.: 60193448

Dear Brady Gerber:

Enclosed are the analytical results for sample(s) received by the laboratory on May 06, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

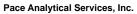
Sincerely,

Shuri Dosenstande

Sherri Rosenstangle sherri.rosenstangle@pacelabs.com Project Manager

Enclosures





Pace Analytical www.pacelabs.com

9608 Loiret Blvd. Lenexa, KS 66219 (913)599-5665

CERTIFICATIONS

Project: CLEAN HARBORS - WICHITA KS

Pace Project No.: 60193448

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219 WY STR Certification #: 2456.01 Arkansas Certification #: 13-012-0 Illinois Certification #: 003097 lowa Certification #: 118 Kansas/NELAP Certification #: E-10116 Louisiana Certification #: 03055 Nevada Certification #: KS000212008A Oklahoma Certification #: 9205/9935 Texas Certification #: T104704407 Utah Certification #: KS00021





SAMPLE SUMMARY

Project: CLEAN HARBORS - WICHITA KS

Pace Project No.: 60193448

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60193448001	NE5-SW4-2.5'	Solid	05/06/15 12:20	05/06/15 22:25
60193448002	NE3-SW10-2.5'	Solid	05/06/15 12:30	05/06/15 22:25

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SAMPLE ANALYTE COUNT

Project: CLEAN HARBORS - WICHITA KS

Pace Project No.: 60193448

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60193448001	NE5-SW4-2.5'	EPA 6010	SMW	1
		ASTM D2974	DWC	1
60193448002	NE3-SW10-2.5'	EPA 6010	SMW	1
		ASTM D2974	DWC	1

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ANALYTICAL RESULTS

Project: CLEAN HARBORS - WICHITA KS

Pace Project No.: 60193448

Date: 05/08/2015 04:54 PM

Sample: NE5-SW4-2.5' Lab ID: 60193448001 Collected: 05/06/15 12:20 Received: 05/06/15 22:25 Matrix: Solid

Results reported on a "dry weight"	basis and are ad	justed for per	cent moisture, sa	imple s	size and any dilu	tions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference	Analytical Met	hod: EPA 6010	Preparation Met	hod: EF	PA 3050			
Chromium	3.6	mg/kg	0.57	1	05/07/15 10:00	05/07/15 15:44	7440-47-3	
Percent Moisture	Analytical Met	hod: ASTM D2	974					
Percent Moisture	17.4	%	0.50	1		05/07/15 00:00		



ANALYTICAL RESULTS

Project: CLEAN HARBORS - WICHITA KS

Pace Project No.: 60193448

Date: 05/08/2015 04:54 PM

Sample: NE3-SW10-2.5' Lab ID: 60193448002 Collected: 05/06/15 12:30 Received: 05/06/15 22:25 Matrix: Solid

Results reported on a "dry weight"	basis and are adj	usted for per	cent moisture, sa	mple s	ize and any dilu	tions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference	Analytical Meth	od: EPA 6010	Preparation Meth	nod: EP	PA 3050			
Chromium	30.0	mg/kg	0.63	1	05/07/15 10:00	05/07/15 15:50	7440-47-3	
Percent Moisture	Analytical Meth	od: ASTM D2	974					
Percent Moisture	25.3	%	0.50	1		05/07/15 00:00		



QUALITY CONTROL DATA

Project: CLEAN HARBORS - WICHITA KS

Pace Project No.: 60193448

Date: 05/08/2015 04:54 PM

QC Batch: MPRP/31711 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET

Associated Lab Samples: 60193448001, 60193448002

METHOD BLANK: 1563459 Matrix: Solid

Associated Lab Samples: 60193448001, 60193448002

Parameter Units Result Limit Analyzed Qualifiers

Chromium mg/kg ND 0.50 05/07/15 14:58

LABORATORY CONTROL SAMPLE: 1563460

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers Chromium mg/kg 100 94.9 95 80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1563461 1563462

MS MSD 60193151001 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits RPD RPD Qual 107 75-125 20 Chromium mg/kg 17.0 101 116 120 97 96

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALITY CONTROL DATA

Project: CLEAN HARBORS - WICHITA KS

Pace Project No.: 60193448

QC Batch: PMST/10723 Analysis Method: ASTM D2974

QC Batch Method: ASTM D2974 Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 60193448001, 60193448002

METHOD BLANK: 1563809 Matrix: Solid

Associated Lab Samples: 60193448001, 60193448002

Blank Reporting
Parameter Units Result Limit

ParameterUnitsResultLimitAnalyzedQualifiersPercent Moisture%ND0.5005/07/15 00:00

SAMPLE DUPLICATE: 1563810

Date: 05/08/2015 04:54 PM

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALIFIERS

Project: CLEAN HARBORS - WICHITA KS

Pace Project No.: 60193448

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

Date: 05/08/2015 04:54 PM

(913)599-5665



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CLEAN HARBORS - WICHITA KS

Pace Project No.: 60193448

Date: 05/08/2015 04:54 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60193448001 60193448002	NE5-SW4-2.5' NE3-SW10-2.5'	EPA 3050 EPA 3050	MPRP/31711 MPRP/31711	EPA 6010 EPA 6010	ICP/23553 ICP/23553
60193448001 60193448002	NE5-SW4-2.5' NE3-SW10-2.5'	ASTM D2974 ASTM D2974	PMST/10723 PMST/10723		



Sample Condition Upon Receipt

WO#:60193448

Client Name:		Optional	
Courier: FedEx □ UPS □ VIA □ Clay □ PEX □	CI ☐ Pace ☐ Other	□ Client □ Proj Due Date:	
Tracking #: Pace Shippi	Label Used? Yes □ 1	Proj Name:	
Custody Seal on Cooler/Box Present: Yes ☐ No ☐ Seals	tact: Yes ☑ No □		
Packing Material: Bubble Wrap □ Bubble Bags □	Foam □ None □	Other □	
Thermometer Used: (F-6.9) / T-194 Type of Ice:		ples received on ice, cooling process has t	oegun.
Cooler Temperature: 4- I	(circle one)	Date and initials of person examining	
Temperature should be above freezing to 6°C		contents: W5/7/15	
Chain of Custody present: ✓ Yes ✓ Yes	□N/A 1.	•	
Chain of Custody filled out: ✓ Yes □ ✓ Yes □ ✓ Yes □ ✓ Yes □	□N/A 2.		
Chain of Custody relinquished: ✓ Yes ✓ Yes	□N/A 3.		
Sampler name & signature on COC:	□N/A 4.		
Samples arrived within holding time:	□n/A 5.		
Short Hold Time analyses (<72hr):	□n/A 6.		
Rush Turn Around Time requested: ∠yes □N	□N/A 7. 1 Day		
Sufficient volume:	□N/A 8.		
Correct containers used: ✓ Yes □N	□N/A		
Pace containers used:	□N/A 9.		1
Containers intact:	□N/A 10.		
Unpreserved 5035A soils frozen w/in 48hrs? □Yes □N	ØN/A 11.		
Filtered volume received for dissolved tests?	☑N/A 12.		
Sample labels match COC: ✓ Yes □N	□n/a		
Includes date/time/ID/analyses Matrix: 5L	13.		
All containers needing preservation have been checked.	∕□N/A		
All containers needing preservation are found to be in compliance with EPA recommendation.	14.		
Exceptions: VOA, Coliform, O&G, WI-DRO (water)	Initial when completed	Lot # of added preservative	
Trip Blank present:	ŹN/A		
Pace Trip Blank lot # (if purchased):	15.		
Headspace in VOA vials (>6mm): □Yes □N	ZN/A		
	16.		
Project sampled in USDA Regulated Area:	□N/A 17. List State: 🖌	ς	
Client Notification/ Resolution: Copy COC to Client?	Y / N Field Data	Required? Y N	
Person Contacted: Date/Time:			
Comments/ Resolution:			
		_/	
Project Manager Project	61.	16	
Project Manager Review:	Date:	<u>A)</u>	

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

	Analytical www.percelabs.com
8	Pace

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	Section D Valid Matrix Codes Required Client Information MATRIX CO	des	-		ŏ	COLLECTED	Ω		15	Pr	Preservatives	tives	111/	↑N/A								
	DRINKING WATER WATER WASTE WATER PRODUCT SOIL/SOLID OIL	오 N 전 N 전 이 의 의	GRAB C=CC		COMPOSITE		COMPOSITE END/GRAB	ОГГЕСТІОИ	S				The State of the S	Tulka nie					(N\Y) €			
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1 14	*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.	Pace's NET 30 da	у раутс	ent terms	and agreeir	g to late char	ges of 1.5% p	er month fo	r any invoic	es not pa	id within	30 days.		2	(MM/DD/YY):	5	(1/6		F-ALL-	Q-020rev.	F-ALL-Q-020rev.07, 15-Feb-2007	1